

# Power Xpert® Branch Circuit Monitor 6" color touchscreen display features



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## 1 Introduction

The Eaton Power Xpert Branch Circuit Monitor 6" color touchscreen display (PXBCM-DISP-6-XV) is pre-programmed to communicate with Eaton PXBCM-MB meters. The programming allows access to branch circuit monitor data and meters through the PXBCM meter base. The built-in navigation functions are simple and convenient, allowing easy navigation between screens. The display has been designed to display overall system information for up to 100 configured virtual meters, 100 channel data meters, and alarms from a single PXBCM meter.

## 2 Installation

For installation and connection information, please refer to "PXBCM meter color touchscreen display quick start guide" (Eaton Pub. #TD150031EN).

## 3 Using the touchscreen

### 3.1 Basic navigation

Basic navigation between the screens is accomplished by touching labeled tabs, category areas, buttons or other available selections.

Touching a tab, category, or information button will take the user to the selected screen (see Figure 1).

Touching the Home icon, where available, will return the user to the Home screen.

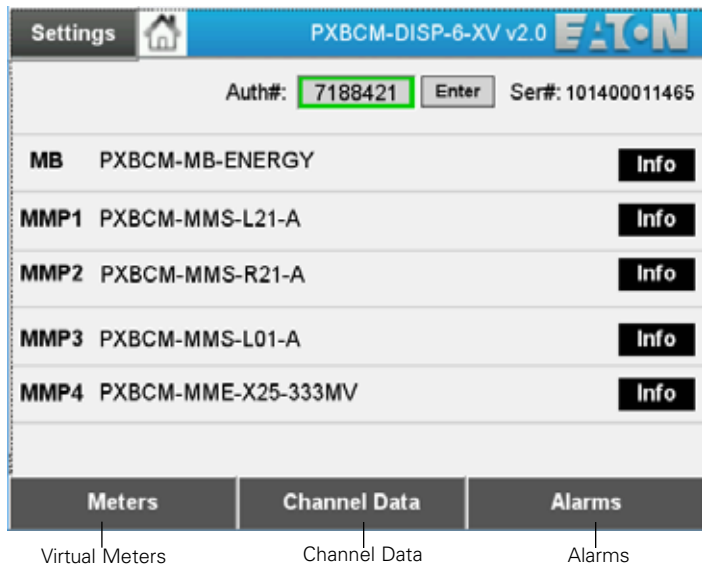


Figure 1. Navigating from the Home screen to Virtual Meters, Channel Data, or Alarms screens.

Touching the Home icon, where available, will return the user to the Home screen.

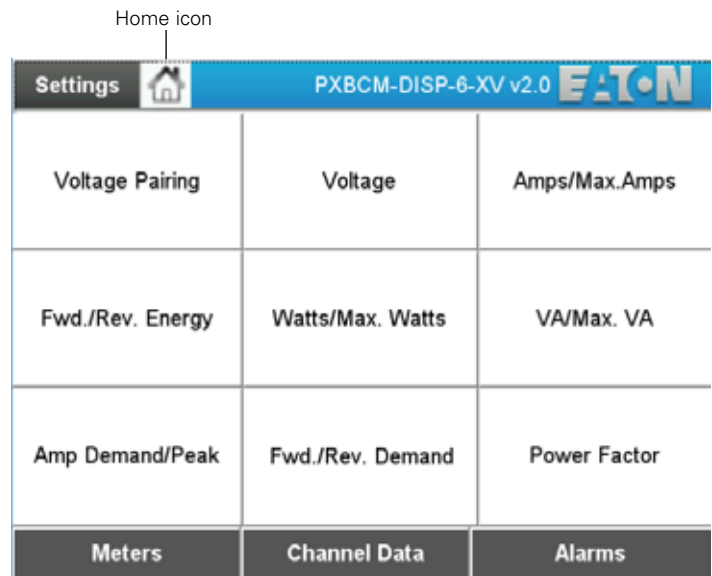


Figure 2. Location of the Home icon available on menu screens.

Touching the "Back" arrow will return the user to the previous category screen. Touching the "Next" arrow will take the user to the next data screen. Touching the "Previous" arrow will take the user to the previous Data screen.

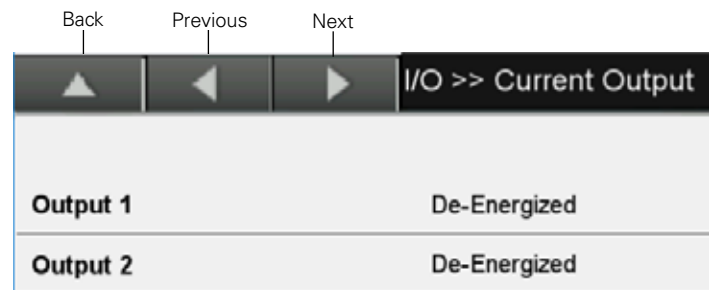


Figure 3. Location of the Back, Previous, and Next arrows.

### 3.2 Home screen

The Home screen appears when power has been applied to the PXBCM 6" color touchscreen display and boot-up is complete. The Home screen provides access to meter base (MB) information, meter module (MMP1-MMP4) information, Virtual Meters, Channel Data, or Alarms.

Touching the information button on the MB row will take the user to the screen with Meter base information (see Figure 4).

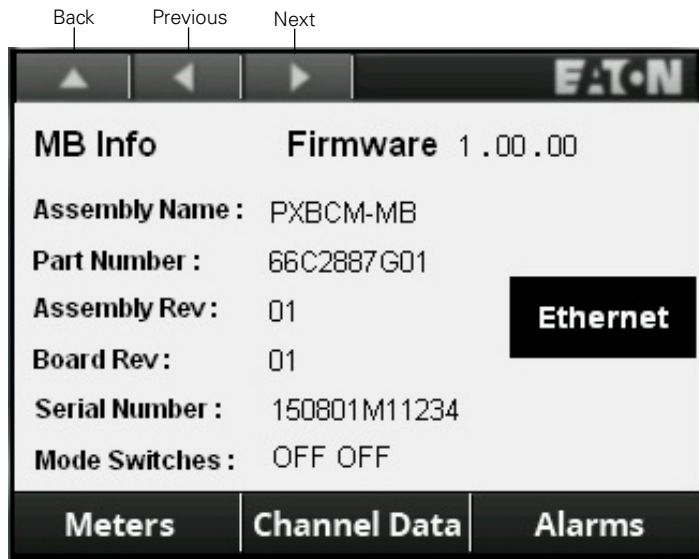


Figure 4. Meter base information.

Touching the information button for one of the meter modules (MMP1-MM4) will take the user to the appropriate screen with information for the selected meter module (see Figure 5).



Figure 5. Meter module information.

### 3.3 Meters tab

Touching the Meters tab will take the user to the list of configured Main and Virtual Meters (see Figure 6). Each set is organized as 25 virtual meters (7 on each of the first three pages and 4 on the fourth page). Previous and Next buttons navigate to other sets of 25 virtual meters.



Figure 6. Main and list of Virtual Meters.

Each Virtual Meter or Main has a couple screens containing detailed data for the selected meter (see Figure 7).



Figure 7. Main and Virtual Meter data.

### 3.4 Channel Data tab

Touching the Channel Data tab will take the user to a Category Selection screen (see Figure 8). Once there, the user will be able to select one of nine categories.

- The Voltage Pairing category identifies the current channel name and associated voltage for each current channel.
- The Voltage category displays the three line-to-line voltages and three line-to-neutral voltages.
- The Amps/Max Amps category displays the present RMS amps and largest recorded amps for each channel.
- The Fwd./Rev. Energy category displays the accumulated forward kWh and reverse kWh for each channel.

- The Watts/Max. Watts category displays the present RMS watts and largest recorded watts for each channel.
- The VA/Max.VA category displays the present RMS VA and largest recorded VA for each channel.
- The Amp Demand/Peak category displays the most recently calculated amp demand and largest recorded amp demand for each channel.
- The Fwd./Rev. Demand category displays the most recently calculated forward watt demand and reverse watt demand for each channel.
- The Power Factor category displays the apparent power factor for each channel.

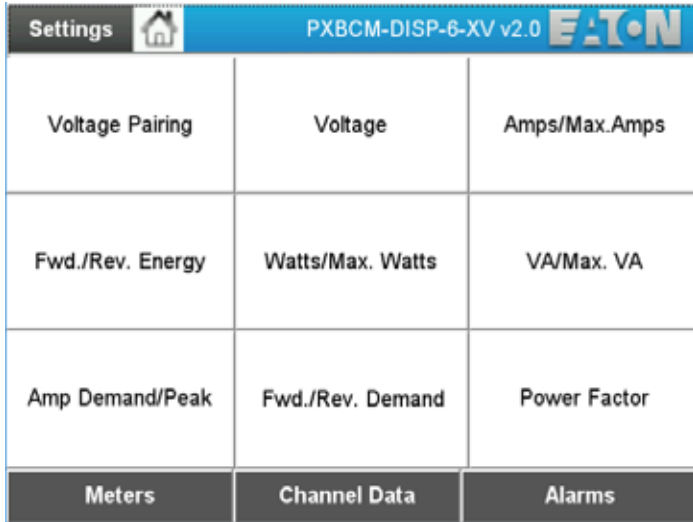


Figure 8. Channel Data Selection screen.

Touching a category will take the user to the channels 1-7 data for the selected category and the most recently selected MMP. From within the Channel Data screens, the “Previous” and “Next” arrows navigate to adjacent meter modules. For example, from MMP1, “Previous” navigates to MMP4 while “Next” navigates to MMP2. Also within the Channel Data screens, the “Up” and “Down” arrows navigate through pages of channel data, specifically 1-7 on the first page, 8-15 on the second page, 16-21 on the third page, and AX1-AX4 on the fourth page (see Figure 9).

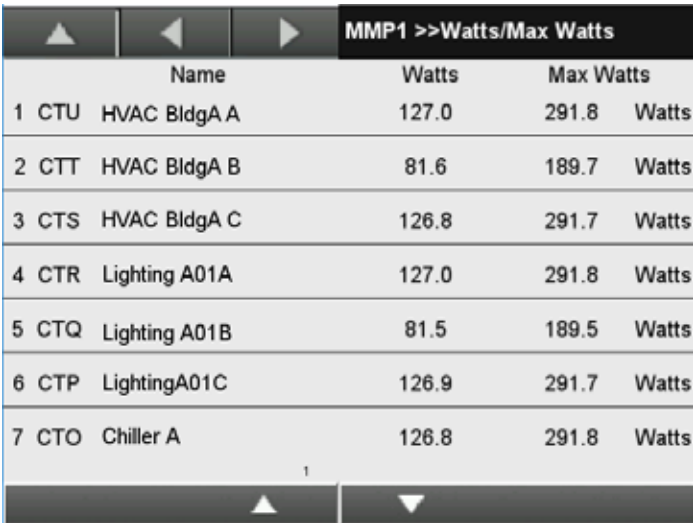


Figure 9. Channel Data screen.

### 3.5 Alarm tab

Touching the Alarms tab will take the user to an overview of the alarms (see Figure 10). Displayed are the number of Latched Current Alarms and Latched Voltage Alarms for each MMP1, MMP2, MMP3, and MMP4, which act as buttons to display additional alarm details (see Figure 11).

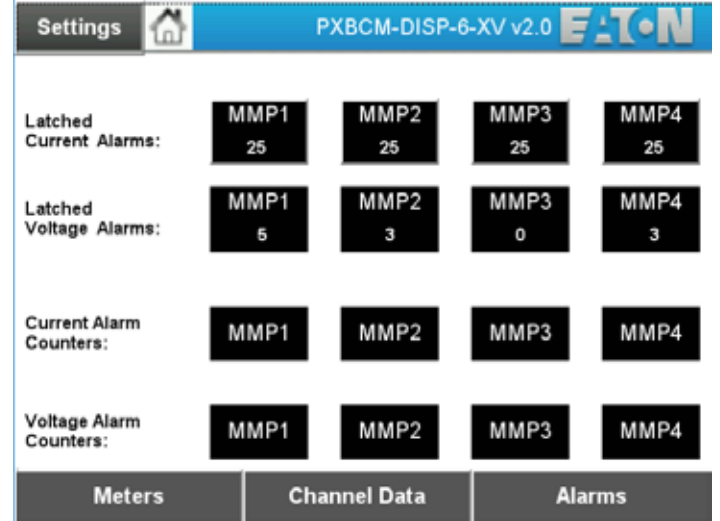


Figure 10. Alarms Summary screen.

Touching MMP1, MMP2, MMP3, or MMP4 on Alarm Counter rows will take the user to screens with further alarm details. The Current Alarm Counters include columns for “Low-Low” (i.e. very low), “Low”; “High”; and “High-High” (i.e. very high). Meanwhile, the Voltage Alarm Counter include columns for “Low” and “High”.

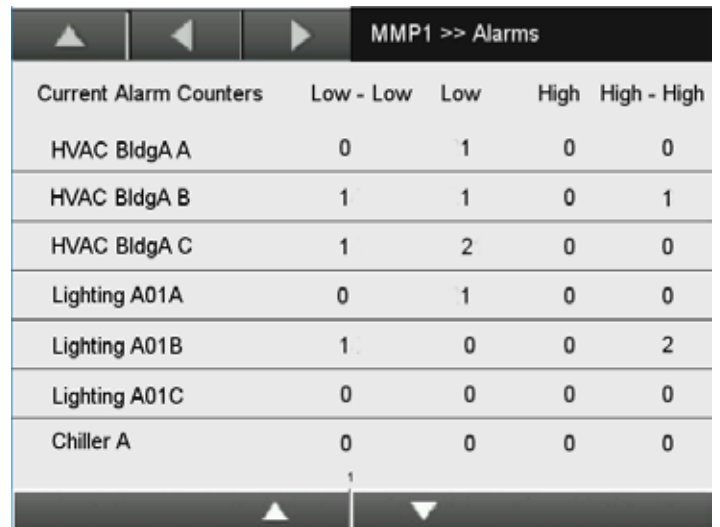


Figure 11. Current Alarm Counters.

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